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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/002,404	10/002,404 12/05/2001		Hyun Duk Cho	P-0311	1015
34610	7590	04/06/2006		EXAMINER	
FLESHNER		, LLP	SENFI, BEHROOZ M		
P.O. BOX 22 CHANTILL		0153		ART UNIT	PAPER NUMBER
•				2621	•

DATE MAILED: 04/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/002,404	CHO ET AL.	
Office Action Summary	Examiner	Art Unit	T
	Behrooz Senfi	2613	
The MAILING DATE of this communication a	appears on the cover sheet w	rith the correspondence a	nddress
Period for Reply A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a lod will apply and will expire SIX (6) MO tute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 17 2a) This action is FINAL . 2b) ▼ T 3) Since this application is in condition for allow closed in accordance with the practice unde	his action is non-final. wance except for formal mat	·	ne merits is
Disposition of Claims			
4) Claim(s) 1-38 is/are pending in the application 4a) Of the above claim(s) is/are with decided 5) Claim(s) 31-38 is/are allowed. 6) Claim(s) 1-4,6,8,9,20,22,24 and 26-28 is/are 7) Claim(s) 5,7,10-19,21,23,25,29 and 30 is/are 8) Claim(s) are subject to restriction and application Papers 9) The specification is objected to by the Example 10) The drawing(s) filed on is/are: a) and applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the correction	lrawn from consideration. e rejected. e objected to. d/or election requirement. iner. accepted or b) □ objected to the drawing(s) be held in abeya rection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 (• •
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	a Office Action of form F	10-152.
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in A riority documents have beer eau (PCT Rule 17.2(a)).	Application No n received in this Nationa	al Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	Paper No.	Summary (PTO-413) (s)/Mail Date Informal Patent Application (P	ГО-152)

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/17/2005 has been entered.

Claims 1, 6, 7, 8, 9, 14, 20 and 24 are currently amended.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1 4, 6, 8, 9, 20, 22, 24 and 26 28 are rejected under 35 U.S.C. 102(e) as being anticipated by Cho et al (US 7,012,962).

Regarding claim 1, Cho '962 discloses, a video data coding/decoding apparatus comprising: an encoder (figs. 2 – 3, abstract) dividing a partition, partitioned by a data partitioning technique into certain blocks; channel-coding the divided block data and transmitting a bit-stream (fig. 1, channel coding 3); the encoder inserting channel coding

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information into the partitioned data (i.e. figs. 2-3, markers 12 and 14 and partition table 21) the channel coding information including size information of each of the plurality of partitions (fig. 3, partition table, which includes the size information of each partition, col. 3, lines 48 – 51, the length information for respective partitioned regions); and a decoder channel-decoding the bit stream received from the encoder so as to restore a video data (i.e. fig. 4, decoding part 32).

Regarding claim 2, Cho '962 discloses, wherein the encoder divides the partition into a plurality of blocks according to a predetermined block size (i.e. col. 2, lines 22 – 23).

Regarding claim 3, Cho '962 discloses, wherein the inserted channel coding information relates to an index of a channel coding rate table, reads on (i.e. figs. 3 - 4, partition table 21).

Regarding claim 4, Cho '962 discloses, wherein the channel coding is performed in units of bytes (i.e. fig. 3, col. 4, lines 60 - 65).

Regarding claim 6, Cho '962 also discloses the encoder comprises: a variable length coder source-coding the video data (i.e. figs. 3 – 4, variable length coding part, col. 5, lines 43 – 45). As for the limitations of "partitioning it into a plurality of partitions, and dividing each partition into certain blocks, and a channel coder channel-coding the partition data of the divided block", they have been analyzed and rejected with respect to claims 1 and 3 above. Cho also discloses a partition mixer mixing a partition table storing the size information of the plurality of partitions and the plurality of partition, so as to form the bit stream (i.e. figs. 3 and 4, variable length

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coding part and the channel coding part are combined to form a bit-stream, see col. 5, lines 43 – 60).

Regarding claim 8, the limitations as claimed are the decoding part of claim 6 above, which reads on (i.e. figs. 1 and 4, channel decoding part and source decoding part, which are being combined to produce the original data to display).

Regarding claim 20, the limitations claimed have been analyzed and rejected with respect to claims 1 and 6 above.

Regarding claim 22, the limitations claimed have been analyzed and rejected with respect to claim 4 above.

Regarding claim 24, the limitations claimed have been analyzed and rejected with respect to claims 1, 3 and 6 above.

Regarding claims 9 and 26, the claimed limitations of "wherein the encoder comprises: a variable length coder source-coding a video data and partitioning it into a plurality of partitions, and dividing each of the partitioned partitions into the certain blocks; a channel coder channel-coding the partition data of the divided blocks; a partition mixer mixing the plurality of channel-coded partitions" have been analyzed and rejected with respect to claim 6 above. Furthermore, Cho also discloses a marker emulation eliminator checking whether marker emulation has occurred in the mixed partitions and performing a marker emulation avoiding operation (col. 5, lines 59 - 67). Specifically, in Cho, in the case of channel decoding, if an error occurs to boundary of respective partition regions (note: a boundary of each partitions can be known by

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partition markers), it prevents continuation of a wrong channel coding by using length information on the partition table, not the marker (col. 6, lines 60 - 65).

Regarding claim 27, the limitation claimed has been analyzed and rejected with respect to claim 4 above.

Regarding claim 28, the limitations claimed have been analyzed and rejected with respect to claims 1 and 3.

4. Claims 1-2 are rejected under 35 U.S.C. 102(e) as being anticipated by Wen et al (US 6,768,775).

Regarding claim 1, Wen '775 discloses, a video data coding/decoding apparatus (i.e. fig. 3, abstract lines 1 – 3), an encoder dividing a partition partitioned by a data partitioning technique into certain block (i.e. fig. 3, 30 and 32), channel coding the divided block data and transmitting a bit-stream (i.e. fig. 3, 32, 36, 34), the encoder inserting channel coding information into the partition data (i.e. fig. 3, elements 36 and 32, col. 3, lines 40 – 50, col. 5, lines 35 – 58), the channel coding information including size information of each of the plurality of partitions (i.e. col. 3, lines 41 – 45 and col. 4, lines 23 – 36) teaches, an additional information may be inserted into a bit region (MVDP bit region, LMVV bit region, DDP bit region), for example in the DDP bit region an 8-bit fixed length code is used, which is the size information of that region/partition, a decoder channel decoding the bit stream received from the encoder so as to restore a video data (i.e. fig. 5, decoder 60).

Regarding claim 2, Wen '775 discloses, encoder divides the partition into a plurality of blocks according to a predetermined block size (i.e. fig. 3, in as much as applicant has disclosed).

Allowable Subject Matter

5. Claims 31 – 38 are allowed over the prior art of the record.

Claims 5, 7, 10, 11 – 19, 21, 23, 25, 29 and 30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

6. The following is an examiner's statement of reasons for allowance:

The prior art of the record fails to anticipate or render obvious the following:

Re claim 31, the further limitation of avoiding a marker emulation; generating a window having less bits than the marker bit; checking whether a marker emulation has occurred between the partition data while sliding the generated window; and inserting a certain value at the very next portion of a portion which matches the window to avoid a marker emulation, when the marker emulation is generated between partition data;

Re claim 33, the further limitations of searching a marker while removing bits inserted to avoid a marker emulation from a received bit stream; demixing the bit stream to a plurality of partitions when a marker is discovered; computing a total bit amount, an information bit amount and a channel coding bit amount of each partitioned partition and channel-decoding the partition data according to an index of a channel coding rate

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table; and mixing the channel-decoded partitions, and performing a source decoding on the partitions so as to restore an original video data.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claims 32 and 34 – 38 are allowed with respect to independent claims 31 and 33

Contact

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Behrooz Senfi** whose telephone number is (571) 272-7339.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Mehrdad Dastouri** can be reached on **(571) 272-7418**.

Hand-delivered responses should be brought to Randolph Building, 401 Dulany Street, Alexandria, Va. 22314.

Any inquiry of a general nature or relative to the status of the application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (571) 272-6000,

Or faxed to:

(571) 273-8300

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published Application/Control Number: 10/002,404 Page 8

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B.M.S.

3/27/2006

PRIMARY EXAMINER